

d hist

(FILE 'USPAT' ENTERED AT 16:39:06 ON 02 AUG 1999) ✓

L1 0 S 607/002  
L2 0 S 607/002/CCLS  
L3 0 S 607/CCLS  
L4 0 S S 607/2/CCLS  
L5 0 S 607/009/CCLS  
L6 0 S "607/002"/CCLS  
L7 181 S "607/2"/CCLS  
L8 24 S L7 AND ELECTRIC FIELD  
L9 4 S L8 AND HEART  
L10 0 S "607/003"/CCLS  
L11 68 S "607/3"/CCLS  
L12 9 S L11 AND ELECTRIC FIELD  
L13 3 S L12 AND HEART

=> d 19 1-4

1. 5,895,416, Apr. 20, 1999, Method and apparatus for controlling and steering an **electric field**; Francisco J. Barreras, Sr., et al., 607/62; 600/547, 585; 606/129; **607/2**, 46, 117, 148 [IMAGE AVAILABLE]

2. 5,111,812, May 12, 1992, Defibrillation electrode having smooth current distribution; David K. Swanson, et al., **607/2** [IMAGE AVAILABLE]

3. 5,056,517, Oct. 15, 1991, Biomagnetically localizable multipurpose catheter and method for magnetocardiographic guided intracardiac mapping, biopsy and ablation of cardiac arrhythmias; Riccardo Fenici, **607/2** [IMAGE AVAILABLE]

4. 4,827,932, May 9, 1989, Implantable defibrillation electrodes; Raymond E. Ideker, et al., **607/2**; 600/375, 377 [IMAGE AVAILABLE]

=> d 1-3

1. 5,674,267, Oct. 7, 1997, Electric pulse applicator using pairs of needle electrodes for the treatment of biological tissue; Lluís Mir, et al., 607/72; 604/21; **607/3** [IMAGE AVAILABLE]

2. 4,233,965, Nov. 18, 1980, Method and apparatus for the therapeutic treatment of living tissue; Everitt E. Fairbanks, 600/14; **607/3**, 66, 70 [IMAGE AVAILABLE]

3. 3,769,985, Nov. 6, 1973, ELECTROSTATIC TREATMENT APPARATUS WITH CHARGE DISPERSAL MEANS; Naoharu Fujii, et al., **607/3** [IMAGE AVAILABLE]

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L1          0 S 607/002
L2          0 S 607/002/CCLS
L3          0 S 607/CCLS
L4          0 S 607/2/CCLS
L5          0 S 607/009/CCLS
L6          0 S "607/002"/CCLS
L7         181 S "607/2"/CCLS
L8          24 S L7 AND ELECTRIC FIELD
L9          4 S L8 AND HEART
L10         0 S "607/003"/CCLS
L11         68 S "607/3"/CCLS
L12          9 S L11 AND ELECTRIC FIELD
L13          3 S L12 AND HEART
L14         569 S ("607/4" OR "607/5" OR "607/9")/CCLS
L15        1026 S ("607/4" OR "607/5" OR "607/9")/CCLS
L16         48 S L15 AND ELECTRIC FIELD
L17          0 S L16 AND NON-EXCITATORY
L18         16 S L16 AND EXCITATION

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=> d 1-16

1. 5,871,505, Feb. 16, 1999, Apparatus for generating biphasic waveforms in an implantable defibrillator; Theodore P. Adams, et al., 607/5 [IMAGE AVAILABLE]
2. 5,827,326, Oct. 27, 1998, Implantable cardioverter defibrillator having a smaller energy storage capacity; Mark W. Kroll, et al., 607/5 [IMAGE AVAILABLE]
3. 5,735,878, Apr. 7, 1998, Implantable defibrillator having multiple pathways; Mark W. Kroll, et al., 607/5 [IMAGE AVAILABLE]
4. 5,697,953, Dec. 16, 1997, Implantable cardioverter defibrillator having a smaller displacement volume; Mark W. Kroll, et al., 607/5 [IMAGE AVAILABLE]
5. 5,591,209, Jan. 7, 1997, Implantable defibrillator system for generating an active biphasic waveform; Mark W. Kroll, 607/5, 74 [IMAGE AVAILABLE]
6. 5,540,721, Jul. 30, 1996, Process and apparatus for defibrillation system with a small capacitor; Mark W. Kroll, 607/5, 74 [IMAGE AVAILABLE]
7. 5,534,015, Jul. 9, 1996, Method and apparatus for generating biphasic waveforms in an implantable defibrillator; Mark W. Kroll, et al., 607/7, 5, 74 [IMAGE AVAILABLE]
8. 5,514,160, May 7, 1996, Implantable defibrillator for producing a rectangular-shaped defibrillation waveform; Mark W. Kroll, et al., 607/5 [IMAGE AVAILABLE]
9. 5,433,730, Jul. 18, 1995, Conductive pouch electrode for defibrillation; Eckhard Alt, 607/5, 36, 123 [IMAGE AVAILABLE]

10. 5,411,527, May 1995, Difibrillation electrode and implantation; Eckhard Alt, 607/5; 600/374, 395; 607/120, 122, 123, 129 [IMAGE AVAILABLE]

11. 5,405,363, Apr. 11, 1995, Implantable cardioverter defibrillator having a smaller displacement volume; Mark W. Kroll, et al., 607/5, 36 [IMAGE AVAILABLE]

12. 5,342,399, Aug. 30, 1994, Implantable defibrillator system having a small capacitance valve; Mark W. Kroll, 607/5 [IMAGE AVAILABLE]

13. 5,306,291, Apr. 26, 1994, Optimal energy steering for an implantable defibrillator; Mark W. Kroll, et al., 607/5 [IMAGE AVAILABLE]

14. 5,170,785, Dec. 15, 1992, Rate varying pacemaker apparatus and method for deriving a preferred one of different patient activity control signals; Michael E. Heinz, et al., 607/9 [IMAGE AVAILABLE]

15. 5,170,784, Dec. 15, 1992, Leadless magnetic cardiac pacemaker; Ceon Ramon, et al., 607/9; 600/9, 14 [IMAGE AVAILABLE]

16. 3,915,174, Oct. 28, 1975, Pacing apparatus and improved catheter; Thomas A. Preston, 607/9, 10, 122 [IMAGE AVAILABLE]

d 116 1-48

1. 5,928,269, Jul. 27, 1999, Apparatus and method for temporary atrial defibrillation with external defibrillator and implanted transvenous catheter and electrodes; Eckhard Alt, 607/5 [IMAGE AVAILABLE]
2. 5,871,505, Feb. 16, 1999, Apparatus for generating biphasic waveforms in an implantable defibrillator; Theodore P. Adams, et al., 607/5 [IMAGE AVAILABLE]
3. 5,833,712, Nov. 10, 1998, Implantable defibrillator system for generating a biphasic waveform; Mark W. Kroll, et al., 607/7, 5, 74 [IMAGE AVAILABLE]
4. 5,827,326, Oct. 27, 1998, Implantable cardioverter defibrillator having a smaller energy storage capacity; Mark W. Kroll, et al., 607/5 [IMAGE AVAILABLE]
5. 5,817,130, Oct. 6, 1998, Implantable cardiac cardioverter/defibrillator with EMI suppression filter with independent ground connection; Timothy John Cox, et al., 607/5; 128/901; 607/36 [IMAGE AVAILABLE]
6. 5,814,076, Sep. 29, 1998, Apparatus for improved cardiac pacing and sensing using extracardiac indifferent electrode configurations; Robert R. Brownlee, 607/9; 128/901; 607/37 [IMAGE AVAILABLE]
7. 5,797,967, Aug. 25, 1998, System and method to reduce defibrillation requirements; Bruce H. KenKnight, 607/4 [IMAGE AVAILABLE]
8. 5,782,879, Jul. 21, 1998, Apparatus and method for discriminating flow of blood in a cardiovascular system; John P. Rosborough, et al., 607/6; 600/504; 607/5 [IMAGE AVAILABLE]
9. 5,735,878, Apr. 7, 1998, Implantable defibrillator having multiple pathways; Mark W. Kroll, et al., 607/5 [IMAGE AVAILABLE]
10. 5,735,876, Apr. 7, 1998, Electrical cardiac output forcing method and apparatus for an atrial defibrillator; Kai Kroll, et al., 607/5 [IMAGE AVAILABLE]
11. 5,728,138, Mar. 17, 1998, Cardiac defibrillator with multi-phase ferroelectric/antiferroelectric capacitor; Joseph P. Dougherty, et al., 607/5; 361/313 [IMAGE AVAILABLE]
12. 5,725,559, Mar. 10, 1998, Programmably upgradable implantable medical device; Eckhard Alt, et al., 607/5; 128/903; 607/31, 59 [IMAGE AVAILABLE]
13. 5,697,953, Dec. 16, 1997, Implantable cardioverter defibrillator having a smaller displacement volume; Mark W. Kroll, et al., 607/5 [IMAGE AVAILABLE]
14. 5,662,687, Sep. 2, 1997, Implantable heart defibrillator; Sven-Erik Hedberg, et al., 607/5 [IMAGE AVAILABLE]
15. 5,653,734, Aug. 5, 1997, Method of atrial defibrillation employing a temporary implanted catheter; Eckhard Alt, 607/5 [IMAGE AVAILABLE]

16. 5,649,966, Jul. 1997, Method and apparatus for applying electrical signals to a heart for therapy or diagnosis; Kjell Noren, et al., 607/4 [IMAGE AVAILABLE]
17. 5,620,469, Apr. 15, 1997, Stepped cardioversion system for an implantable cardioverter defibrillator; Mark W. Kroll, 607/7, 5 [IMAGE AVAILABLE]
18. 5,591,209, Jan. 7, 1997, Implantable defibrillator system for generating an active biphasic waveform; Mark W. Kroll, 607/5, 74 [IMAGE AVAILABLE]
19. 5,578,062, Nov. 26, 1996, Defibrillator shock timing in fibrillatory cycle interval; Eckhard Alt, et al., 607/5 [IMAGE AVAILABLE]
20. 5,545,184, Aug. 13, 1996, Cardiac defibrillator with high energy storage antiferroelectric capacitor; Joseph P. Dougherty, 607/5 [IMAGE AVAILABLE]
21. 5,540,721, Jul. 30, 1996, Process and apparatus for defibrillation system with a small capacitor; Mark W. Kroll, 607/5, 74 [IMAGE AVAILABLE]
22. 5,534,015, Jul. 9, 1996, Method and apparatus for generating biphasic waveforms in an implantable defibrillator; Mark W. Kroll, et al., 607/7, 5, 74 [IMAGE AVAILABLE]
23. 5,531,779, Jul. 2, 1996, Stent-type defibrillation electrode structures; Roger W. Dahl, et al., 607/119; 600/381; 607/5, 122 [IMAGE AVAILABLE]
24. 5,514,160, May 7, 1996, Implantable defibrillator for producing a rectangular-shaped defibrillation waveform; Mark W. Kroll, et al., 607/5 [IMAGE AVAILABLE]
25. 5,441,518, Aug. 15, 1995, Implantable cardioverter defibrillator system having independently controllable electrode discharge pathway; Theodore P. Adams, et al., 607/5 [IMAGE AVAILABLE]
26. 5,433,730, Jul. 18, 1995, Conductive pouch electrode for defibrillation; Eckhard Alt, 607/5, 36, 123 [IMAGE AVAILABLE]
27. 5,411,527, May 2, 1995, Difibrillation electrodes and implantation; Eckhard Alt, 607/5; 600/374, 395; 607/120, 122, 123, 129 [IMAGE AVAILABLE]
28. 5,405,363, Apr. 11, 1995, Implantable cardioverter defibrillator having a smaller displacement volume; Mark W. Kroll, et al., 607/5, 36 [IMAGE AVAILABLE]
29. 5,391,188, Feb. 21, 1995, Low cost implantable medical device; Gary E. Nelson, et al., 607/9, 32 [IMAGE AVAILABLE]
30. 5,366,485, Nov. 22, 1994, Apparatus for defibrillation pretreatment of a heart; Mark W. Kroll, et al., 607/5 [IMAGE AVAILABLE]
31. 5,342,399, Aug. 30, 1994, Implantable defibrillator system having a small capacitance valve; Mark W. Kroll, 607/5 [IMAGE AVAILABLE]
32. 5,314,448, May 24, 1994, Process for defibrillation pretreatment of a heart; Mark W. Kroll, et al., 607/5 [IMAGE AVAILABLE]
33. 5,306,291, Apr. 26, 1994, Optimal energy steering for an implantable defibrillator; Mark W. Kroll, et al., 607/5 [IMAGE AVAILABLE]

34. 5,265,603, Nov. 1993, Electronic capture detection for a pacer; Terrence R. Hudrlik, 607/9, 28 [IMAGE AVAILABLE]
35. 5,184,620, Feb. 9, 1993, Method of using a multiple electrode pad assembly; Michael J. Cudahy, et al., 600/382, 393, 509; 607/4 [IMAGE AVAILABLE]
36. 5,181,511, Jan. 26, 1993, Apparatus and method for antitachycardia pacing using a virtual electrode; Peter Nickolls, et al., 607/14, 4 [IMAGE AVAILABLE]
37. 5,170,785, Dec. 15, 1992, Rate varying pacemaker apparatus and method for deriving a preferred one of different patient activity control signals; Michael E. Heinz, et al., 607/9 [IMAGE AVAILABLE]
38. 5,170,784, Dec. 15, 1992, Leadless magnetic cardiac pacemaker; Ceon Ramon, et al., 607/9; 600/9, 14 [IMAGE AVAILABLE]
39. 5,156,149, Oct. 20, 1992, Sensor for detecting cardiac depolarizations particularly adapted for use in a cardiac pacemaker; Terrence R. Hudrlik, 607/9 [IMAGE AVAILABLE]
40. 5,137,458, Aug. 11, 1992, Electrode placement training system; Mark T. Unga, et al., 434/262, 265; 607/5 [IMAGE AVAILABLE]
41. 5,133,353, Jul. 28, 1992, Implantable intravenous cardiac stimulation system with pulse generator housing serving as optional additional electrode; Robert G. Hauser, 607/4, 9, 72 [IMAGE AVAILABLE]
42. 4,998,975, Mar. 12, 1991, Travenously placed defibrillation leads; Donald M. Cohen, et al., 607/5, 119 [IMAGE AVAILABLE]
43. 4,969,463, Nov. 13, 1990, Defibrillation electrode and method for employing gatling discharge defibrillation; Roger W. Dahl, et al., 607/5 [IMAGE AVAILABLE]
44. 4,817,608, Apr. 4, 1989, Cardioverting transvenous catheter/patch electrode system and method for its use; J. Edward Shapland, et al., 607/4 [IMAGE AVAILABLE]
45. 4,038,990, Aug. 2, 1977, Cautery protection circuit for a heart pacemaker; David L. Thompson, 607/9; 333/12 [IMAGE AVAILABLE]
46. 3,968,802, Jul. 13, 1976, Cautery protection circuit for a heart pacemaker; Joseph A. Ballis, 607/9; 128/908 [IMAGE AVAILABLE]
47. 3,915,174, Oct. 28, 1975, Pacing apparatus and improved catheter; Thomas A. Preston, 607/9, 10, 122 [IMAGE AVAILABLE]
48. 3,908,667, Sep. 30, 1975, Cardiac pacer; Robert I. Bernstein, 607/9; 327/100, 185, 227 [IMAGE AVAILABLE]